

Table E6.2.

End Uses of Fuel Consumption, 1998;
Level: National and Regional Data;
Row: End Uses;
Column: Energy Sources, including Net Electricity;
Unit: Trillion Btu.

End Use	Total	Net ^a Electricity	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel ^b	Natural Gas ^c	LPG and NGL ^d	Coal (excluding Coal Coke and Breeze)	Other ^e	RSE Row Factors
Total United States									
RSE Column Factors:									
Fuel Consumption	17,695	3,035	357	133	6,644	135	1,143	6,248	2.4
Indirect Uses - Boiler Fuel	--	19	246	38	2,538	24	770	--	2.9
Direct Uses - Total Process	--	2,408	103	37	3,361	78	338	--	3.5
Process Heating	--	352	97	20	3,187	68	331	--	4.0
Process Cooling and Refrigeration	--	186	*	*	22	2	*	--	5.9
Machine Drive	--	1,560	5	13	99	7	7	--	12.9
Electro-Chemical Processes	--	298	--	--	--	--	--	--	1.1
Other Process Use	--	12	1	3	52	1	*	--	3.8
Direct Uses - Total Nonprocess	--	538	8	52	673	29	30	--	3.4
Facility HVAC ^f	--	271	4	6	403	4	4	--	5.7
Facility Lighting	--	211	--	--	--	--	--	--	1.0
Other Facility Support	--	49	1	6	40	*	*	--	6.2
Onsite Transportation	--	5	--	35	5	24	--	--	2.2
Conventional Electricity Generation	--	--	3	3	210	*	27	--	3.9
Other Nonprocess Use	--	2	*	1	Q	*	0	--	13.9
End Use Not Reported	6,405	70	1	7	72	4	3	6,248	8.1
Northeast Census Region									
RSE Column Factors:	NF	0.6	1.4	2.0	0.9	1.5	0.5	NF	
Fuel Consumption	1,713	349	135	33	534	14	100	548	4.2
Indirect Uses - Boiler Fuel	--	2	102	11	196	1	54	--	6.6
Direct Uses - Total Process	--	258	27	10	256	8	38	--	6.4
Process Heating	--	46	23	8	241	7	38	--	7.3
Process Cooling and Refrigeration	--	21	*	*	1	*	0	--	9.8
Machine Drive	--	167	4	1	11	1	*	--	8.1
Electro-Chemical Processes	--	23	--	--	--	--	--	--	1.0
Other Process Use	--	1	*	1	3	*	0	--	16.8
Direct Uses - Total Nonprocess	--	77	6	9	73	4	8	--	5.7
Facility HVAC ^f	--	37	3	4	58	1	*	--	7.2
Facility Lighting	--	32	--	--	--	--	--	--	1.2
Other Facility Support	--	7	*	*	4	*	0	--	12.0
Onsite Transportation	--	1	--	4	*	2	--	--	5.7
Conventional Electricity Generation	--	--	2	1	10	*	8	--	7.1
Other Nonprocess Use	--	*	*	*	1	*	0	--	31.6
End Use Not Reported	570	11	*	2	8	*	*	548	17.5
Midwest Census Region									
RSE Column Factors:	NF	0.6	0.6	2.6	0.7	1.2	1.3	NF	
Fuel Consumption	4,598	928	70	20	1,642	21	418	1,498	3.5
Indirect Uses - Boiler Fuel	--	5	43	3	534	2	284	--	5.2
Direct Uses - Total Process	--	737	28	8	854	9	124	--	4.4
Process Heating	--	118	28	4	813	7	124	--	5.7
Process Cooling and Refrigeration	--	51	0	*	3	*	*	--	8.7
Machine Drive	--	502	*	2	25	1	0	--	5.2
Electro-Chemical Processes	--	62	--	--	--	--	--	--	1.0
Other Process Use	--	4	*	2	13	*	0	--	4.3
Direct Uses - Total Nonprocess	--	165	*	8	231	10	9	--	2.9
Facility HVAC ^f	--	77	*	1	203	1	3	--	5.3
Facility Lighting	--	71	--	--	--	--	--	--	1.1
Other Facility Support	--	15	*	*	13	*	*	--	8.1
Onsite Transportation	--	2	--	7	*	9	--	--	2.4
Conventional Electricity Generation	--	--	*	*	12	*	6	--	3.6
Other Nonprocess Use	--	1	0	Q	2	*	0	--	5.6
End Use Not Reported	1,544	21	0	1	23	1	*	1,498	12.9

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(Continued)

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End Use	Total	Net ^a Electricity	Residual Fuel Oil	Distillate Fuel Oil and Diesel Fuel ^b	Natural Gas ^c	LPG and NGL ^d	Coal (excluding Coal Coke and Breeze)	Other ^e	RSE Row Factors
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See footnotes at end of table.

South Census Region									
RSE Column Factors:	NF	1.0	0.9	1.9	0.8	1.5	0.5	NF	
Fuel Consumption	8,930	1,314	124	62	3,663	73	470	3,223	2.2
Indirect Uses - Boiler Fuel	--	10	87	21	1,475	16	346	--	2.2
Direct Uses - Total Process	--	1,055	34	15	1,874	45	110	--	3.6
Process Heating	--	141	34	7	1,777	43	108	--	4.6
Process Cooling and Refrigeration	--	90	0	*	15	*	*	--	2.0
Machine Drive	--	703	*	7	47	2	2	--	3.9
Electro-Chemical Processes	--	118	--	--	--	--	--	--	1.3
Other Process Use	--	3	1	*	35	*	0	--	4.1
Direct Uses - Total Nonprocess	--	223	2	24	284	11	13	--	3.9
Facility HVAC ^f	--	121	1	1	101	1	1	--	7.5
Facility Lighting	--	79	--	--	--	--	--	--	1.0
Other Facility Support	--	20	1	6	16	*	0	--	3.6
Onsite Transportation	--	2	--	17	4	9	--	--	3.0
Conventional Electricity Generation	--	--	1	*	152	*	12	--	3.0
Other Nonprocess Use	--	1	*	*	Q	*	0	--	8.5
End Use Not Reported	3,286	27	*	2	30	2	1	3,223	5.3

West Census Region									
RSE Column Factors:	NF	0.7	1.4	1.3	0.9	1.5	0.6	NF	
Fuel Consumption	2,454	444	28	18	804	27	154	978	6.4
Indirect Uses - Boiler Fuel	--	2	15	3	332	6	86	--	9.4
Direct Uses - Total Process	--	357	14	4	376	16	66	--	6.8
Process Heating	--	47	13	2	356	11	61	--	7.5
Process Cooling and Refrigeration	--	24	*	*	3	2	0	--	8.9
Machine Drive	--	189	*	2	15	Q	Q	--	7.9
Electro-Chemical Processes	--	94	--	--	--	--	--	--	1.0
Other Process Use	--	3	0	*	1	*	*	--	10.5
Direct Uses - Total Nonprocess	--	73	*	10	85	4	*	--	4.7
Facility HVAC ^f	--	36	*	1	42	*	0	--	8.3
Facility Lighting	--	29	--	--	--	--	--	--	1.2
Other Facility Support	--	7	*	*	7	*	0	--	8.5
Onsite Transportation	--	*	--	7	*	4	--	--	4.0
Conventional Electricity Generation	--	--	*	2	35	*	*	--	2.8
Other Nonprocess Use	--	*	0	*	1	*	0	--	11.0
End Use Not Reported	1,005	11	0	1	11	1	2	978	6.8

See footnotes at end of table.

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(Continued)

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Footnotes

^a "Net Electricity" is obtained by summing purchases, transfers in, and generation from noncombustible renewable resources, minus quantities sold and transferred out. It does not include electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal).

^b "Distillate Fuel Oil" includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels.

^c "Natural Gas" includes natural gas obtained from utilities, local distribution companies, and any other supplier(s), such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

^d Examples of Liquefied Petroleum Gases "(LPG)" are ethane, ethylene, propane, propylene, normal butane, butylene, ethane-propane mixtures, propane-butane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw Natural Gas Liquids "(NGL)."

^e "Other" includes net steam (the sum of purchases, generation from renewables, and net transfers), and other energy that respondents indicated was used to produce heat and power.

^f Facility Heating, Ventilation, and Air Conditioning "(Facility HVAC)" excludes steam and hot water.

NF=No applicable RSE row/column factor.

* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

NA=Not available.

-- Estimation is not applicable.

S=Negative value.

Notes: C To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. C Totals may not equal sum of components because of independent rounding. C The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy, or were extracted from captive (onsite) mines or wells. C Allocations to specific end uses are made on the basis of reasonable approximations by respondents.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, "1998 Manufacturing Energy Consumption Survey."